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NOTICE OF ALLOWANCE AND FEE(S) DUE

26059

7590

02/17/2004

TOWNSEND AND TOWNSEND AND CREW LLP/ 015114 TWO EMBARCADERO CENTER 8TH FLOOR SAN FRANCISCO, CA 94111-3834 EXAMINER
CHANG, DANIEL D

ART UNIT

PAPER NUMBER

2819

DATE MAILED: 02/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044.365	01/11/2002	Xiaobao Wang	015114-054910US	8233

TITLE OF INVENTION: ON-CHIP IMPEDANCE MATCHING CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applicati ns filed on r after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility t ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

C mplete and send this form, t gether with applicable fee(s), to: Mail

Mail St p ISSUE FEE C mmissioner f r Patents P.O. B x 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	Alexandria, VII (703) 746-4000	rginia 22313-1450	
INSTRUCTIONS: This for appropriate. All further corr indicated unless corrected b maintenance fee notifications	n should be used for transmespondence including the Patelow or directed otherwise in	itting the ISSUE FE ent, advance orders a Block 1, by (a) spec			quired). Blocks 1 through 4 s will be mailed to the current ss; and/or (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE	ADDRESS (Note: Legibly mark-up w	ith any corrections or use Blo	ock 1)	Note: A certificate of	of mailing can only be used for this certificate cannot be used	or domestic mailings of the
26059 759	90 02/17/2004			papers. Each addition have its own certification	nal paper, such as an assignment of mailing or transmission.	ent or formal drawing, must
TOWNSEND AN TWO EMBARCAL 8TH FLOOR SAN FRANCISCO		CREW LLP/(015114	I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Trans this Fee(s) Transmittal is being with sufficient postage for fir ail Stop ISSUE FEE address SPTO, on the date indicated bel	g deposited with the United st class mail in an envelope above, or being facsimile
SAIV I IMIVEISCO	, 611 74111-3034				-	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRST	NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,365	01/11/2002		Xiaobao Wang		015114-054910US	8233
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nonprovisional	NO	\$1330		\$0	\$1330	05/17/2004
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CHANG, D	ANIEL D	2819		326-030000	_	
PTO/SB/47; Rev 03-02 o Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless:	nn (or "Fee Address" Indication r more recent) attached. Use of RESIDENCE DATA TO BE an assignee is identified below to the USPTO or is being sub-	n form f a Customer PRINTED ON THE F y, no assignee data we writted under separate	ent) and the national and the national and the national and the national and the cover. Complete the cover.	e natent. Inclusion of	assignee data is only appropri	ate when an assignment has
Please check the appropriate	assignee category or categorie	s (will not be printed	on the patent);	individual C	corporation or other private g	roup entity 🚨 governmen
4a. The following fee(s) are 6	enclosed:	•	ment of Fee(s):		malagad	
☐ Issue Fee☐ Publication Fee☐				nount of the fee(s) is e t card. Form PTO-203		
	Copies	O T		hereby authorized by	charge the required fee(s), or (enclose an extra of	
Director for Patents is reques	ted to apply the Issue Fee and			-	l issue fee to the application ide	
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and Publication Fee (if required) will not be acceptioned than the applicant; a registered attorney or agent; or the assignee interest as shown by the records of the United States Patent and Trademark 6			other party in ice.			
This collection of informat obtain or retain a benefit be application. Confidentiality estimated to take 12 minute completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner of the confidence of th	ion is required by 37 CFR 1. by the public which is to file is governed by 35 U.S.C. 122 to complete, including gath a to the USPTO. Time will the amount of time you requise burden, should be sent to office, U.S. Department of SND FEES OR COMPLETE or Patents, Alexandria, Virgin	311. The information (and by the USPTO and 37 CFR 1.14. The ering, preparing, and vary depending upon uire to complete this the Chief Information Commerce, Alexar D FORMS TO THE in 22313-1450.	n is required to to process) an nis collection is submitting the the individual is form and/or n Officer, U.S. dria, Virginia IS ADDRESS.			



UNITED STATES PATENT AND TRADEMARK OFFICE

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TWO EMBAR 8TH FLOOR	CADERO CENTER		ART UNIT	PAPER NUMBER	
	SCO, CA 94111-3834		2819		
			DATE MAILED: 02/17/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 16 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 16 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	•
	10/044,365	WANG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Daniel D. Chang	2819	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commur RIGHTS. This application is su	this application. If not includince in the including the induction will be mailed in due	ded course. THIS
1. A This communication is responsive to Amendment filed 1/2	<u>/6/2004</u> .		
2. ☑ The allowed claim(s) is/are <u>1-6,8-15 and 17-28</u> .			
3. The drawings filed on are accepted by the Examir	ner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents ha 2. Certified copies of the priority documents ha 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi 6. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftspee 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date 3. Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in Total DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMEN' 	ve been received. ve been received in Application documents have been received er of this communication to file and the second of the second	No in this national stage applicate a reply complying with the result of the complying with the result of the complying with the result of the complex of the compl	equirements NOTICE OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material) 6. ☐ Interview Sur Paper No./M (/08), 7. ☐ Examiner's A	fail Date mendment/Comment statement of Reasons for All	ŕ
		Daniel D. Chang Primary Examiner Art Unit: 2819	

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Acknowledgement

Page 2

Receipt is acknowledged of the Amendment filed January 6, 2004.

Reasons for Allowance

Claims 1-6, 8-15, and 17-28 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: the best prior art of record, Asano et al., taken alone or in combination of other references, does not teach or fairly suggest an integrated circuit comprising, among other things, a digital encoder circuit coupled to receive the 2^N output signals of the comparators, the digital encoder circuit encoding the 2^N output signals of the comparators into N digital signals that represent an N-bit binary value, the binary value indicating how many of the 2^N output signals of the comparators are HIGH, as set forth in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (571) 272-1801. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel D. Chang Primary Examiner Art Unit 2819

DANIEL CHANG PRIMARY EXAMINER

DC